

# Ayush Saha

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🌐 Ayush Saha

🔑 Ayushsaha004

## EDUCATION

### MCKV Institute of Engineering

B.Tech in Computer Science and Engineering | MAKAUT, July 2022 – June 2026

**GPA: 9.28/10**

West Bengal, India

### Dum Dum Kishore Bharati High School

WBCHSE (Class XII), 2022

**Percentage: 88.88%**

West Bengal, India

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, C++, JavaScript, SQL

**Machine Learning / Deep Learning:** Scikit-learn, TensorFlow, Keras, PyTorch, NLP

**Computer Vision:** OpenCV, Pillow

**Cloud & DevOps:** AWS, Oracle Cloud, GitHub, Docker

**Data Visualization & Analysis:** Pandas, NumPy, Matplotlib, Seaborn

**Soft Skills:** Team Leadership, Problem-Solving, Communication Skills, Time Management, Presentation Skills

## PROJECTS

### Medical Imaging for Skin Cancer Prediction

Ongoing

Collaboration with Jadavpur University

- Built CNN model to detect skin cancer from dermoscopic images.
- Worked with Jadavpur University mentors for evaluation and validation.
- Aiming to improve early detection and publish results in AI research.

### Maternal Health Risk Prediction AI 🤖

Aug 2024 – Dec 2024

- Built ML model to predict maternal health risks from clinical data.
- Performed EDA, feature selection, and classification with high accuracy.
- Delivered clean, deployment-ready code.

### Robust Face Recognition & Gender Classification 🤖

June 2025 – July 2025

- Designed deep learning models to perform face recognition and gender classification in challenging conditions such as fog, blur, and low light.
- Achieved 93.6% accuracy using EfficientNetV2B3 + LSTM for gender classification and 97.66% Top-1 Accuracy with a Siamese network for face recognition.
- Leveraged transfer learning, dynamic data pairing, and Google Drive integration for scalable hosting and real-time usability.

### Traffic Sign Detection 🚦 | CNN, TensorFlow, Flask

- Built and trained a CNN model on the GTSRB dataset for real-time traffic sign classification with high accuracy.
- Deployed the model using Flask for web-based predictions.
- Applied data preprocessing and augmentation techniques to improve model performance.

## EXPERIENCE

### Machine Learning Intern

Aug 2024 – Dec 2024

Infosys Springboard (Remote)

- Hands-on industry training platform in software development and emerging technologies.
- Designed machine learning models for classification and prediction.

### Artificial Intelligence Intern

Oct 2024 – Dec 2024

EDUNET x Microsoft x AICTE

- Developed AI solutions for enterprise applications.
- Collaborated on integrating AI components with SAP systems.

## CERTIFICATIONS & ACHIEVEMENTS

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Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate, Oracle — June 2025  
Deep Learning Specialization, DeepLearning.AI (Coursera) — 2025  
Machine Learning, Stanford Online (Coursera) — 2024  
Joy of Computing using Python, NPTEL (IIT Ropar) — 2025  
Programming in Java, NPTEL (IIT Kharagpur) — 2025  
Career Essentials in Generative AI — 2024  
Data Visualisation: Empowering Business with Effective Insights, Tata — Virtual Experience Program via Forage, 2024

## EXTRACURRICULAR ACTIVITIES & LEADERSHIP

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Team Leader, Final Year Project  
Leader, 2 Internal Hackathons  
Represented college in Smart India Hackathon 2023

## PUBLICATIONS

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### **Skin Lesion Classification using CNNs.**

*Under review for submission at International Conference on Medical Imaging and AI (2025).*

Focused on improving diagnostic accuracy through advanced deep learning techniques; collaborated on dataset preparation, model training, and evaluation.

### **Real-time Gesture Recognition Models for Accessibility**

*Draft in preparation for submission to IEEE SMC.*

Designed and implemented models for accurate, low-latency gesture detection across multiple sign languages (ASL, ISL, BdSL, ArSL), and worked on integrating accessibility features to enhance user interaction.

## LANGUAGES & INTERESTS

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**Languages:** English (Fluent), Hindi (Fluent), Bengali (Native)

**Interests:** AI Research, Hackathons, Open Source, Writing ML Blogs, Cricket